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(FILE 'HOME' ENTERED AT 10:41:08 ON 11 MAY 2005)

FILE 'HCAPLUS' ENTERED AT 10:41:13 ON 11 MAY 2005

L1 1 SEA ABB=ON PLU=ON (GB2000-12083# OR GB1999-20397# OR
WO2000-GB3306#)/AP, PRN

FILE 'REGISTRY' ENTERED AT 10:42:35 ON 11 MAY 2005

FILE 'HCAPLUS' ENTERED AT 10:42:43 ON 11 MAY 2005

L2 TRA L1 1- RN : 47 TERMS

FILE 'REGISTRY' ENTERED AT 10:42:43 ON 11 MAY 2005

L3 47 SEA ABB=ON PLU=ON L2

FILE 'WPIX' ENTERED AT 10:42:46 ON 11 MAY 2005

L4 1 SEA ABB=ON PLU=ON (GB2000-12083# OR GB1999-20397# OR
WO2000-GB3306#)/AP, PRN

=> b hcap

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FILE COVERS 1907 - 11 May 2005 VOL 142 ISS 20

FILE LAST UPDATED: 10 May 2005 (20050510/ED)

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L1 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:167843 HCAPLUS

DN 134:237835

ED Entered STN: 09 Mar 2001

TI Method for coupling molecules such as peptides and oligonucleotides

IN Gait, Michael John; Stetsenko, Dmitry

PA Medical Research Council, UK

SO PCT Int. Appl., 39 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K047-48

CC 34-3 (Amino Acids, Peptides, and Proteins)

Section cross-reference(s): 33

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001015737	A2	20010308	WO 2000-GB3306	20000825 <--
	WO 2001015737	A3	20011115		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,				

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SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
 YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
 DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
 CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
 CA 2382499 AA 20010308 CA 2000-2382499 20000825 <--
 EP 1207909 A2 20020529 EP 2000-956666 20000825 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL
 JP 2003508450 T2 20030304 JP 2001-520148 20000825 <--
 PRAI GB 1999-20397 A 19990827 <--
 GB 2000-12083 A 20000518 <--
 WO 2000-GB3306 W 20000825 <--

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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WO 2001015737	ICM	A61K047-48
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OS MARPAT 134:237835

AB A method is given for linking a first mol. M1-NH2 with a second mol. M2-OH which comprises reaction of a compound of formula M1-NHCO-A-C(O)SR1 (M1 is the residue of a mol. bearing an amino group, A is an alkylene or arylene group, R1 is alkyl or aryl) with a compound of formula M2-O-B(D-SR2)NH2 (M2 is the residue of a mol. bearing a hydroxy group, B is a linker, D is C1-4 alkylene or C3-12 arylene, R2 is H or a thiol protecting group). In addition, this invention relates to conjugate products of the coupling reaction, reagents for modifying M1-NH2 and M2-OH, and kits comprising these reagents. Thus, coupling reagents pentafluorophenyl S-benzyl thiosuccinate and 4-N- α -Fmoc-S-tert-butylsulfenyl-L-cysteinylpiperidyl 2-cyanoethyl N,N-diisopropylphosphoramidite were prepared and applied to the automated solid phase synthesis of peptide N-terminal S-benzyl thioesters and 5'-cysteinyl oligonucleotides and solution-phase synthesis of peptide-N-5'-oligonucleotide conjugates.

ST coupling method peptide oligonucleotide prepn

IT Peptide coupling

(method for coupling mols. such as peptides and oligonucleotides)

IT Oligonucleotides

Peptides, preparation

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 100-53-8, Benzyl mercaptan 108-30-5, Succinic anhydride, reactions 771-61-9, Pentafluorophenol 5382-16-1, 4-Hydroxypiperidine 5961-85-3, Tris(2-carboxyethyl)phosphine 50910-54-8, trans-4-Aminocyclohexanol hydrochloride 89992-70-1 102691-36-1 115520-21-3 143038-41-9
 RL: RCT (Reactant); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 110556-14-4P 294172-31-9P 294172-32-0P 294172-33-1P 294172-35-3P
 294172-37-5P 294172-39-7P 329185-90-2P 329185-91-3P 329185-94-6P
 329185-97-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(method for coupling mols. such as peptides and oligonucleotides)

IT 294172-40-0P 294172-41-1P 294172-42-2P 294172-43-3P 294172-44-4P
 294172-45-5P 294172-46-6P 294172-47-7P 294172-48-8P 294172-49-9P
 294172-50-2P 294900-76-8P 294900-77-9P 294900-78-0P 294900-79-1P
 294900-80-4P 295810-35-4P 295810-36-5P 295810-37-6P 295810-38-7P
 295810-39-8P 295810-40-1P 295810-41-2P 329186-01-8P 329991-05-1P
 329991-06-2DP, fluorescein bound

RL: SPN (Synthetic preparation); PREP (Preparation)

(method for coupling mols. such as peptides and oligonucleotides)

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FILE LAST UPDATED: 6 MAY 2005 <20050506/UP>

MOST RECENT DERWENT UPDATE: 200529 <200529/DW>

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FOR DETAILS. <<<

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L4 ANSWER I OF 1 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
AN 2001-367105 [38] WPIX
DNC C2001-112480
TI Method for coupling molecules, e.g. peptides and oligonucleotides, and new
intermediates and reagents.
DC B04 B05
IN GAIT, M J; STETSENKO, D
PA (MEDI-N) MEDICAL RES COUNCIL
CYC 95
PI WO 2001015737 A2 20010308 (200138)* EN 39 A61K047-48
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TZ UG ZW
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE
SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2000068539 A 20010326 (200138) A61K047-48
EP 1207909 A2 20020529 (200243) EN A61K047-48
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT
RO SE SI
JP 2003508450 W 20030304 (200319) 44 C07K001-00
ADT WO 2001015737 A2 WO 2000-GB3306 20000825; AU 2000068539 A AU
2000-68539 20000825; EP 1207909 A2 EP 2000-956666 20000825, WO
2000-GB3306 20000825; JP 2003508450 W WO 2000-GB3306 20000825
, JP 2001-520148 20000825
FDT AU 2000068539 A Based on WO 2001015737; EP 1207909 A2 Based on WO
2001015737; JP 2003508450 W Based on WO 2001015737
PRAI GB 2000-12083 20000518; GB 1999-20397
19990827
IC ICM A61K047-48; C07K001-00
ICS A61K031-7088; A61K048-00; A61P043-00; C07K007-00; C07K014-00
AB WO 2001015737 A UPAB: 20010711
NOVELTY - Linking an amine derivative (I') with a hydroxy derivative (II')
comprises reacting an alkyl or aryl thio ester (I) with an amino thioether
(II).
DETAILED DESCRIPTION - Linking an amine derivative (I') with a
hydroxy derivative (II') comprises reacting an alkyl or aryl thioester (I)
with an amino thioether (II).
M1 = residue of a molecule bearing an amino group;
A' = alkylene or arylene;
R1 = alkyl or aryl;
M2 = residue of a molecule bearing a hydroxy group;
B' = linker;
D' = 1-4C alkylene or 3-12C arylene;
R2 = H or a thiol protecting group.
INDEPENDENT CLAIMS are included for the following:

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- (a) compounds (I) and (II) are claimed as new per se;
- (b) new alkyl or aryl thio esters of formula (III);
- (c) new amino thioethers of formula (IV);
- (d) compounds containing an amido mercapto structural unit of formula (V);

- (e) new amido thio derivatives of formulae (VI) and (VII);
- (f) the preparation of (I) and (II); and
- (g) kits comprising (III) and/or (IV).

R5 = OH, oxy anion and salts, alkoxy, aryloxy, N-succinimidyloxy, N (norbornenedicarboximido)oxy, N-benzotriazolyloxy, N-(1,2-dihydro 1-oxo-2,3,4-benzotriazin-2-yl)oxy, halo or N-azolyl; or together with the adjacent CO groups forms an anhydride;

R6 = dialkylamino, imino, halo, N-azolyl, alkoxy, aryloxy, alkylthio or arylthioaryl;

J' = alkylene or arylene; and

Y' = labelling, reporter or effector group.

(I)-(VI) may be linked to a solid support.

USE - Compounds (I)-(VI) are useful e.g. for linking a peptide and an oligonucleotide.

Dwg. 0/0

FS CPI
FA AB: GI; DCN
MC CPI: B10-B03B; B10-D03

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